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## Claims

- 1. Process for the regeneration of a catalyst, said catalyst comprising at least one precious metal on an amorphous silica-alumina support, in which process the catalyst is impregnated with an acid, followed by reduction or oxidation of the impregnated catalyst at a temperature above 200°C.
- 2. Process according to claim 1, wherein the precious metal is at least one of Pt, Pd, Au, Ir, Ru, Rh, Re, Os and Ag, preferably Pt and/or palladium.
- 10 3. Process according to claim 1 or 2, wherein the degree of dispersion is increased after the regeneration.
  - 4. Process according to claims 1-3, wherein the acid impregnated catalyst is reduced in a flow of hydrogen gas.
- 5. Process according to Claims 1-4, wherein the acid
  impregnated catalyst is oxidised in a flow of dry (<0.1 vol.% of water) air, followed by reduction.
  - 6. Process according to claims 1 5, wherein the reduction and or oxidising step are carried out at a temperature of between 250 and 600°C.
- 20 7. Process according to Claims 1-6, wherein the silicaalumina support has been prepared using a sol-gel method.
  - 8. Process according to claims 1-7, wherein the support has an Si-Al atomic ratio of from 0.1 to 300.
  - 9. Process according to claims 1-8, wherein the catalyst
- 25 has a precious metal content of from 0.01 to 5 wt.%, calculated on the basis of the weight of reduced catalyst.
  - 10. Process according to claims 1 9, wherein the catalyst is impregnated with an aqueous solution of the acid.
- 11. Process according to Claims 1=10, wherein the acid is selected from the group of HCl, H<sub>3</sub>PO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>, HBr and combinations thereof.



- Process according to claims 1 11, wherein the amount of acid calculated on the basis of a ratio of equivalents of acid to atoms of precious metal is between 0.1 and 100, preferably between 0.5 and 10 pair
- 5 13. Process according to claims 1-12, wherein prior to the impregnation, carbonaceous deposits on the catalyst are burned off.
  - 14. Process according to claim 1-13; wherein the regeneration is carried out in a reactor, separate from the reactor in which the catalyst is used.
    - 15. Process according to claims 1-14, wherein the catalyst is a used catalyst from a process in the group consisting of hydrogenation, hydro-isomerisation, hydrodewaxing and catalytic reforming.
- 15 16. Process for hydrogenation, hydro-isomerisation, hydro-desulfurisation or hydrodewaxing, comprising treating the feedstock in the presence of a catalyst that has been regenerated using the process of claims 1-15.

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